APPROVED BY DRAFTSMAN
CLASS SUBCLASS

FIG. 1 **PRIOR ART**

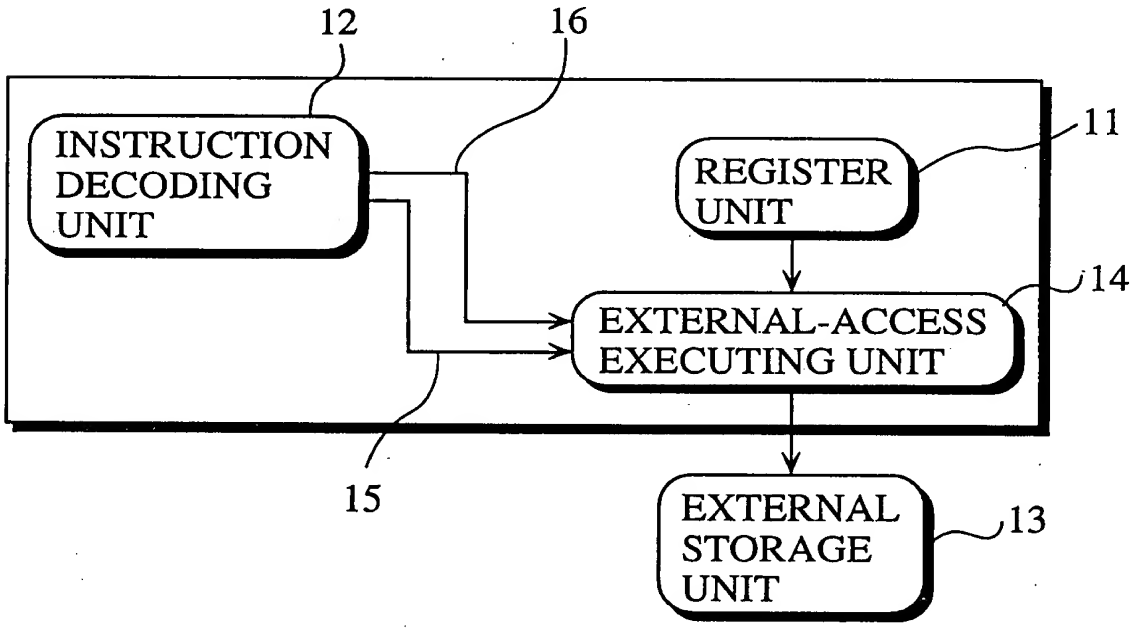

FIG. 2 **PRIOR ART**

OP	SIZE	SRC	DEST
MOVE	32bit	A1	@A2

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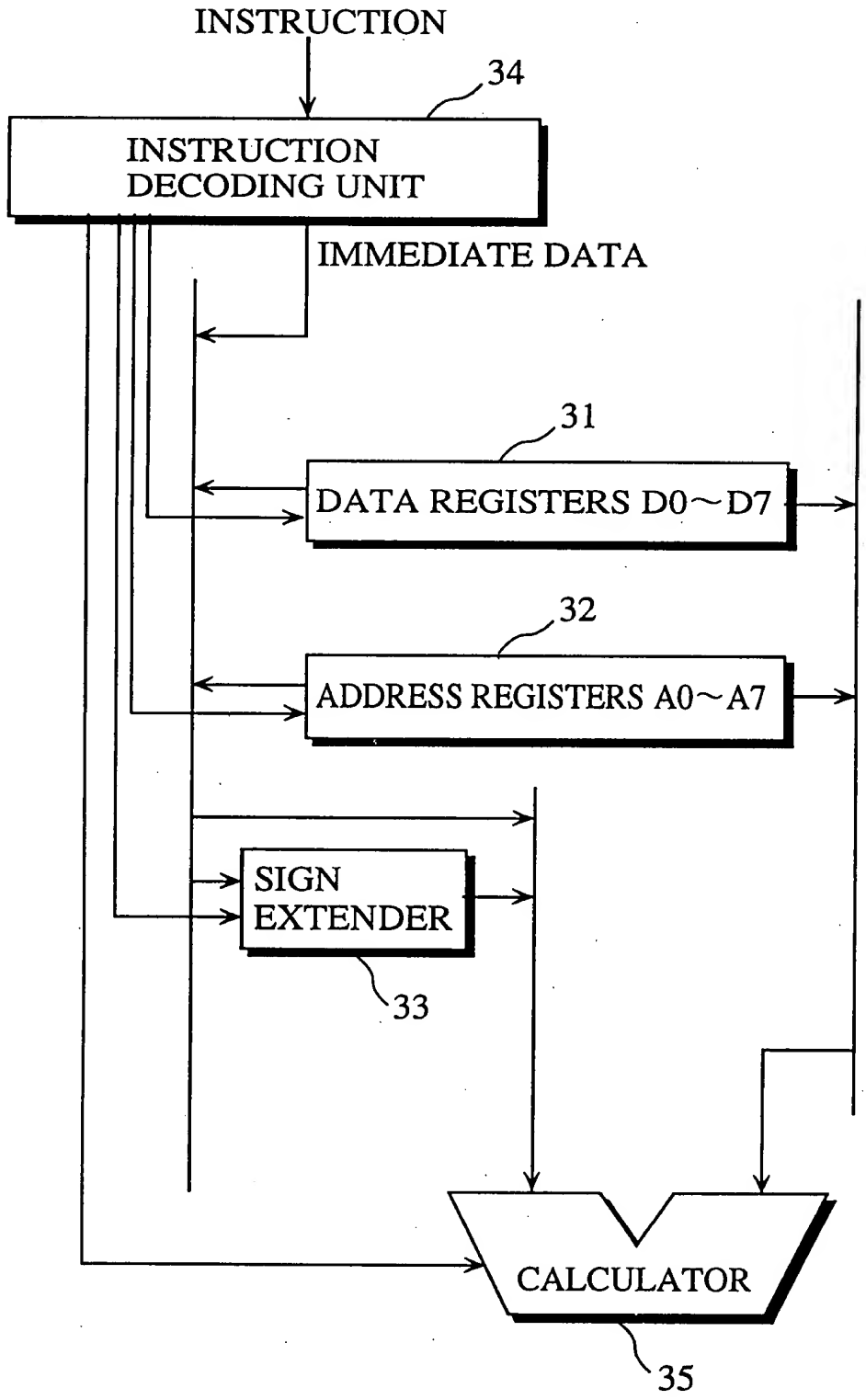
FIG. 3 **PRIOR ART**



APPROVED BY DRAFTSMAN | O.G. FIG | CLASS | SUBCLASS

FIG. 4A **PRIOR ART**

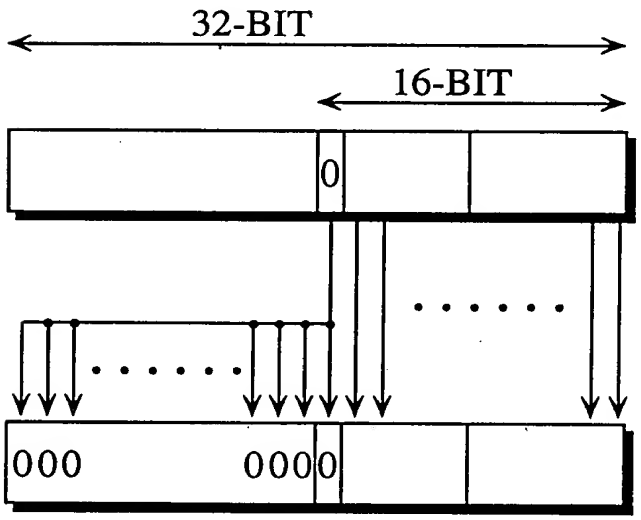
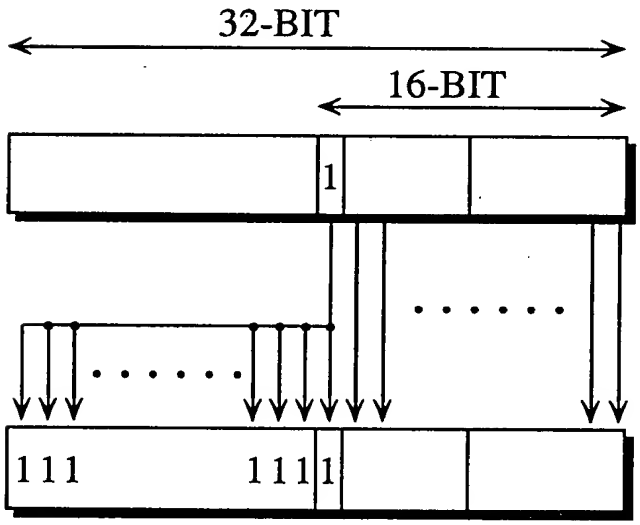


FIG. 4B **PRIOR ART**



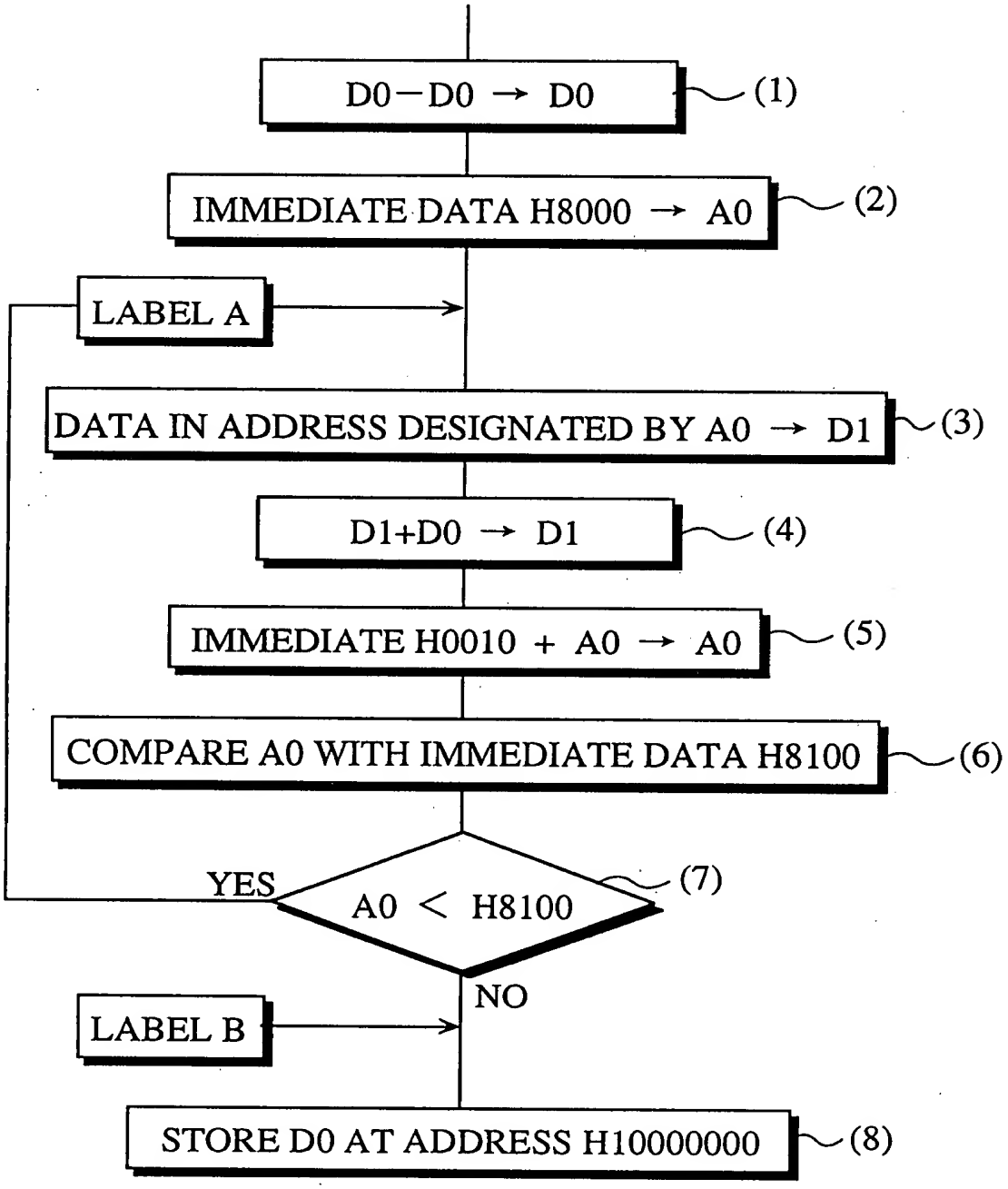
APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS
SUBCLASS

FIG. 5 **PRIOR ART**

```
            SUB   D0,D0          ——(1)
            MOVI  #H8000,A0      ——(2)→MOVI #H00008000,A0 (2')
LABEL A     MOV
            ADD   @A0,D1         ——(3)
            ADDI  D1,D0          ——(4)
            CMPI  #H0010,A0      ——(5)→ADDI #H00000010,A0 (5')
            BLT   #H8100,A0      ——(6)→CMPI #H00008100,A0 (6')
                  LABEL A        ——(7)
LABEL B     MOV
                  D0,@H10000000  ——(8)
```

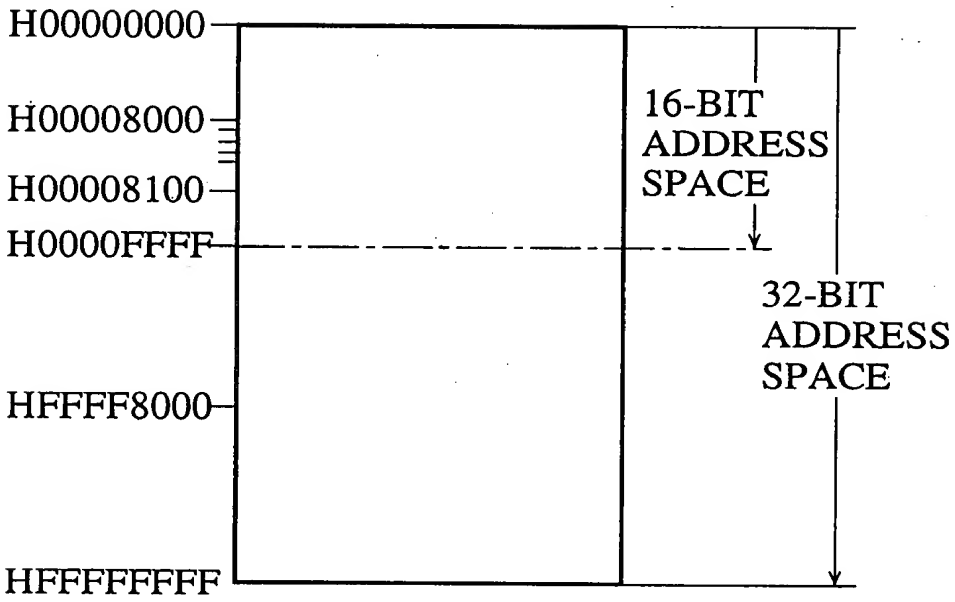
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 6 **PRIOR ART**



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 7 **PRIOR ART**



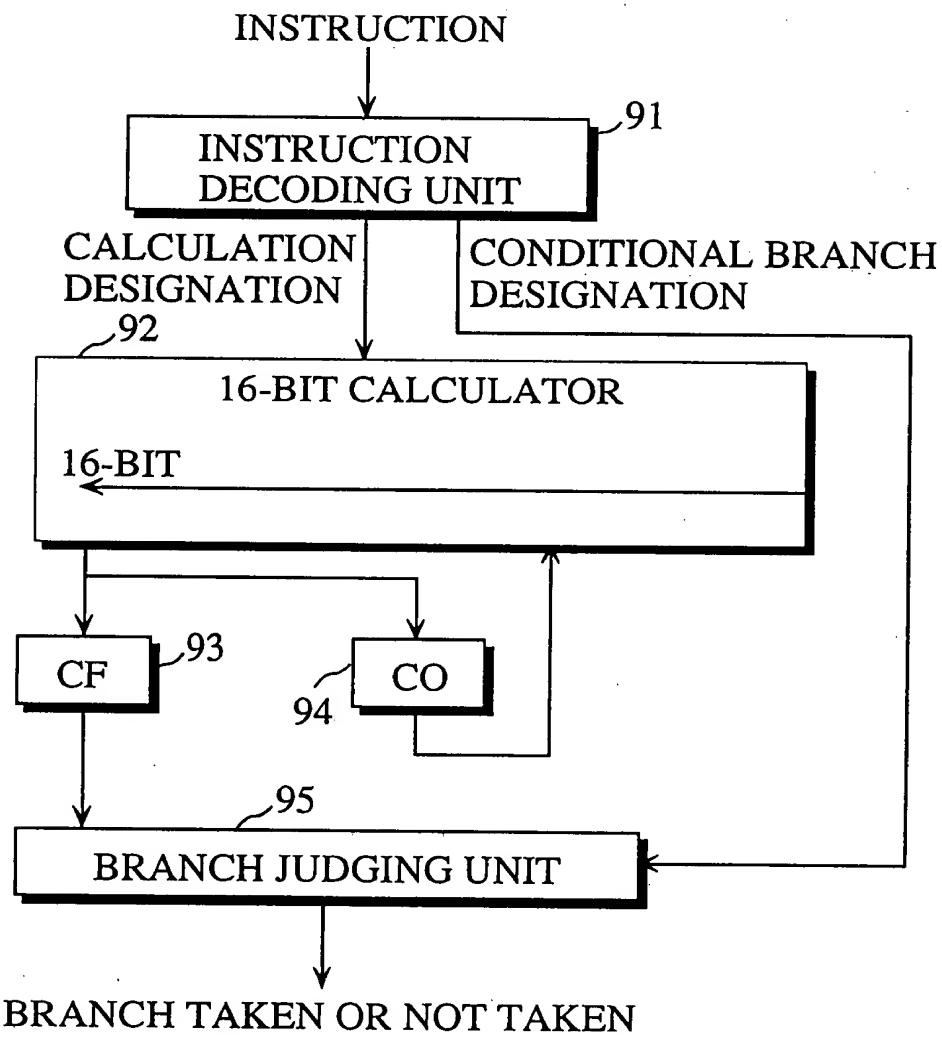
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 8 **PRIOR ART**

```
        SUB   D0,D0            ——(1)
        MOVI  #H8000,A0        ——(2-1)
        ANDI  #H0000FFFF,A0    ——(2-2)
LABEL A
        MOV   @A0,D1           ——(3)
        ADD   D1,D0            ——(4)
        ADDI  #H0010,A0        ——(5)
        MOVI  #H8100,A0        ——(6-1)
        ANDI  #H0000FFFF,A1    ——(6-2)
        CMP   A1,A0            ——(6-3)
        BLT   LABEL A          ——(7)
LABEL B
        MOV   D0,@H10000000    ——(8)
```

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 9 **PRIOR ART**



APPROVED BY DRAFTSMAN
O.G. FIG.
CLASS

FIG. 10 **PRIOR ART**

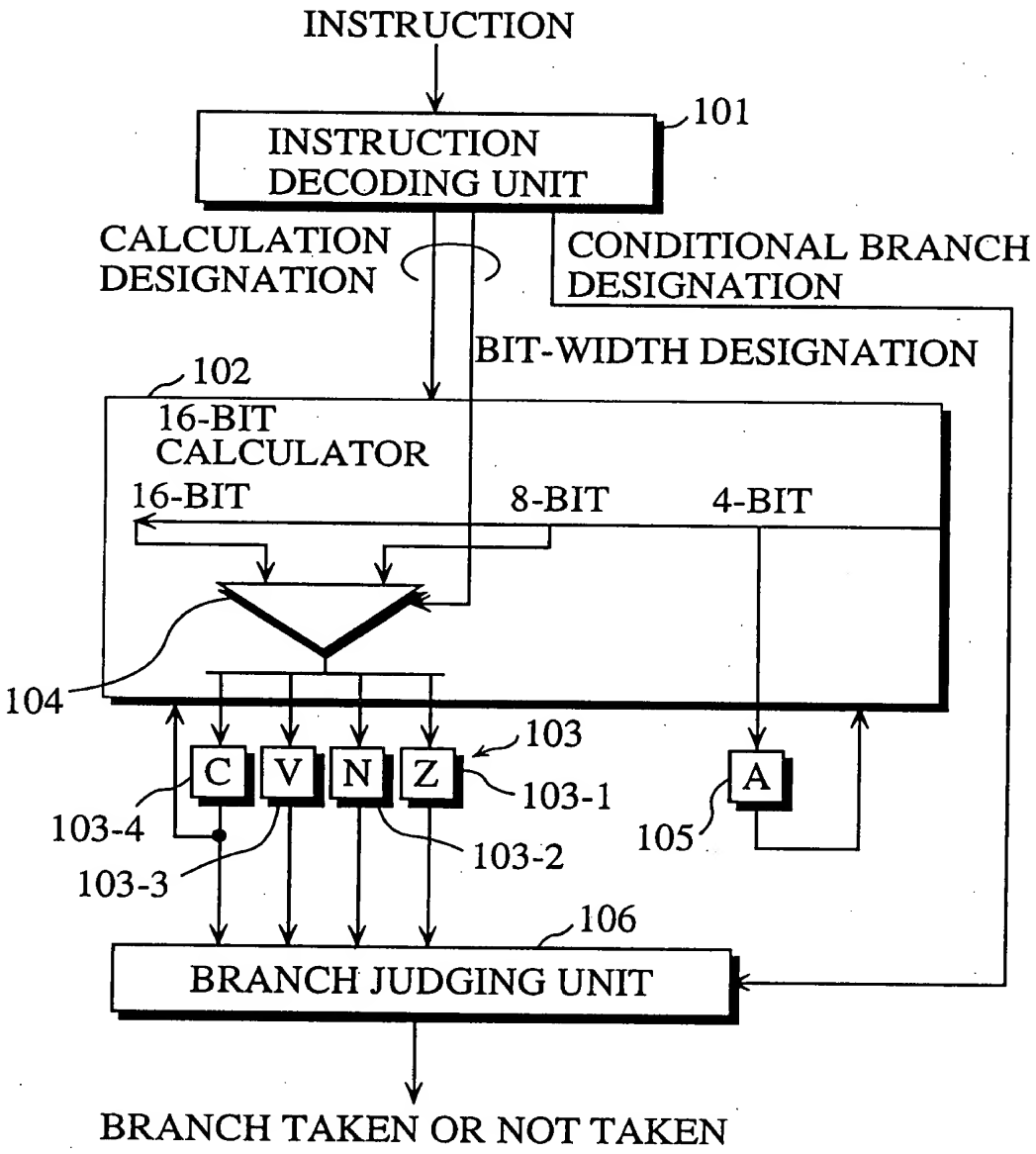


FIG. 11A **PRIOR ART**

ADD/SUBTRACT/COMPARE INSTRUCTIONS

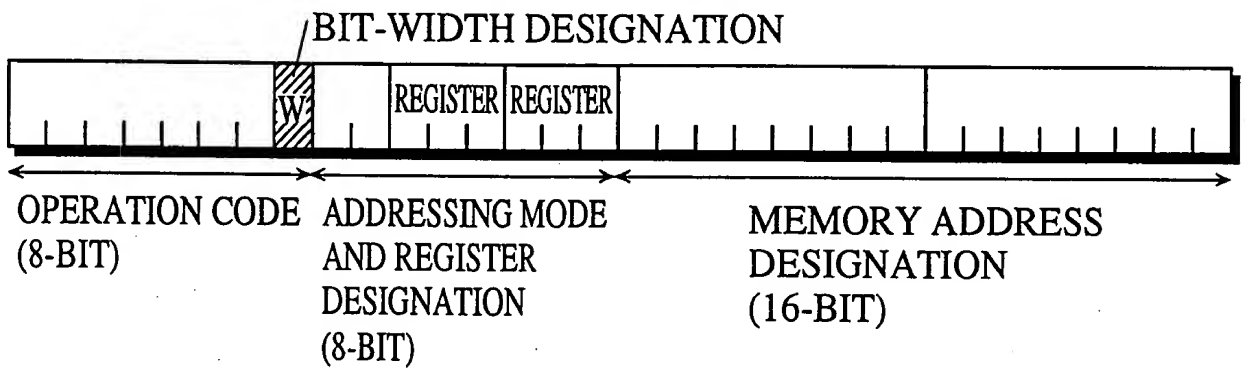


FIG. 11B **PRIOR ART**

CONDITIONAL BRANCH INSTRUCTION

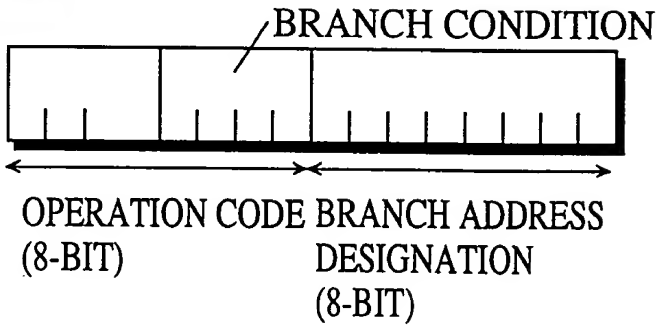


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FIG. 12A **PRIOR ART**

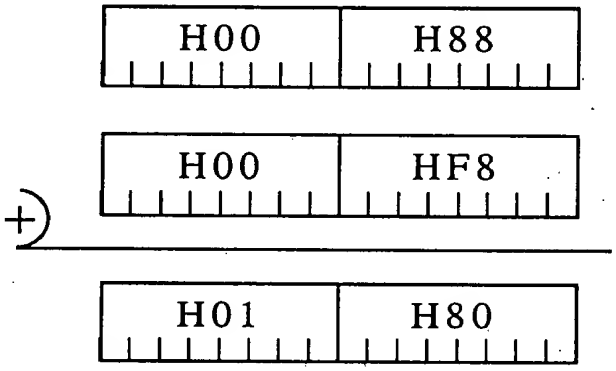
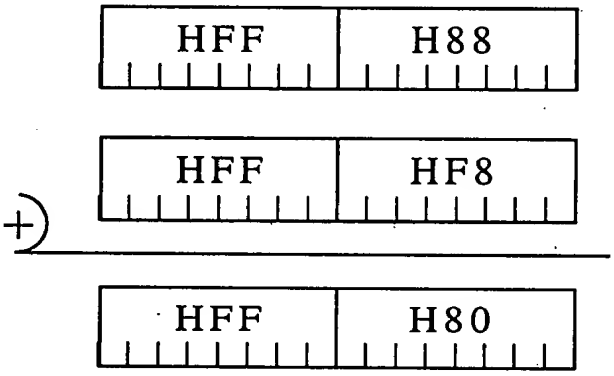


FIG. 12B **PRIOR ART**



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O.G. FIG.
CLASS SUBCLASS

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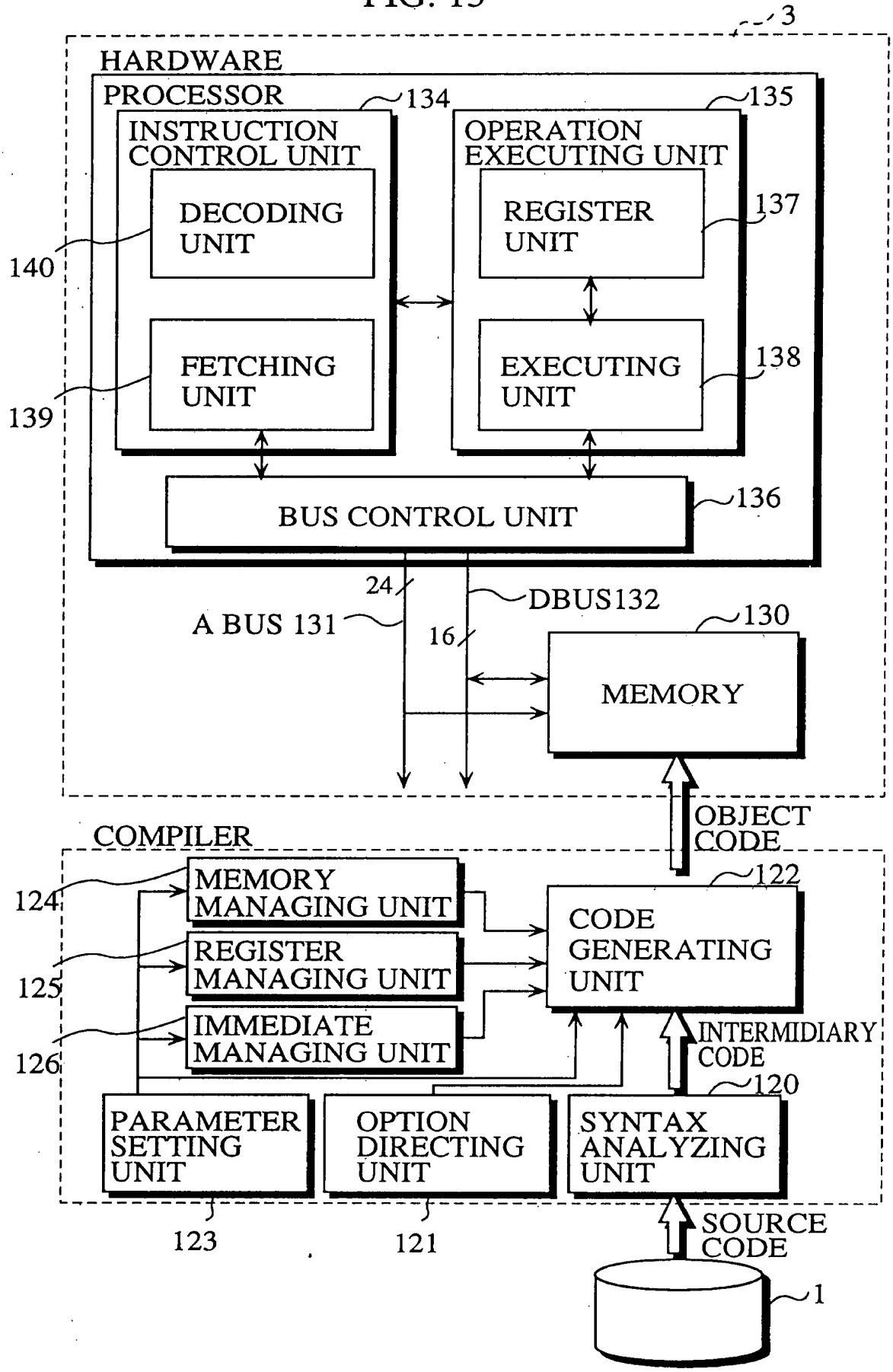
FIG. 13



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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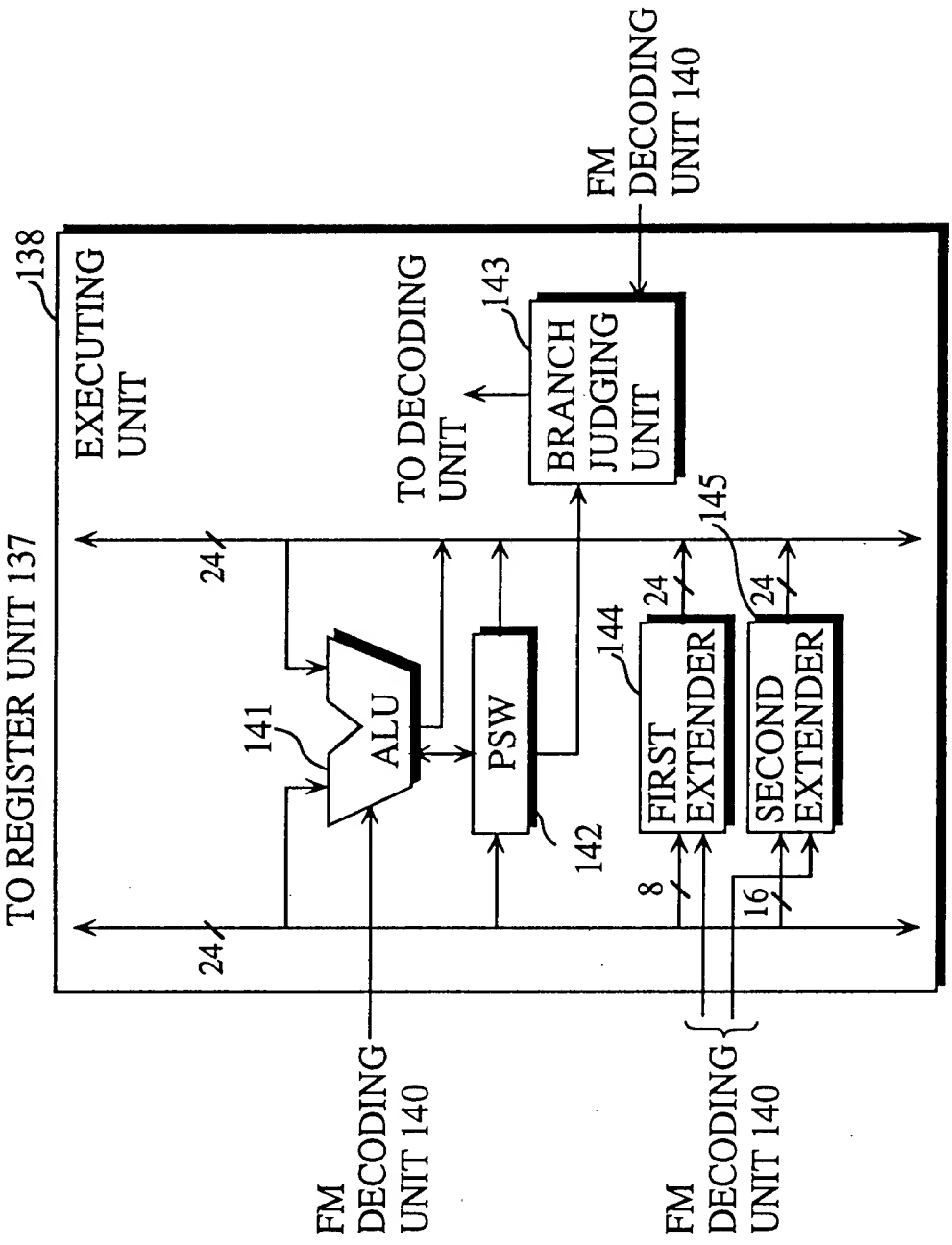
FIG. 14



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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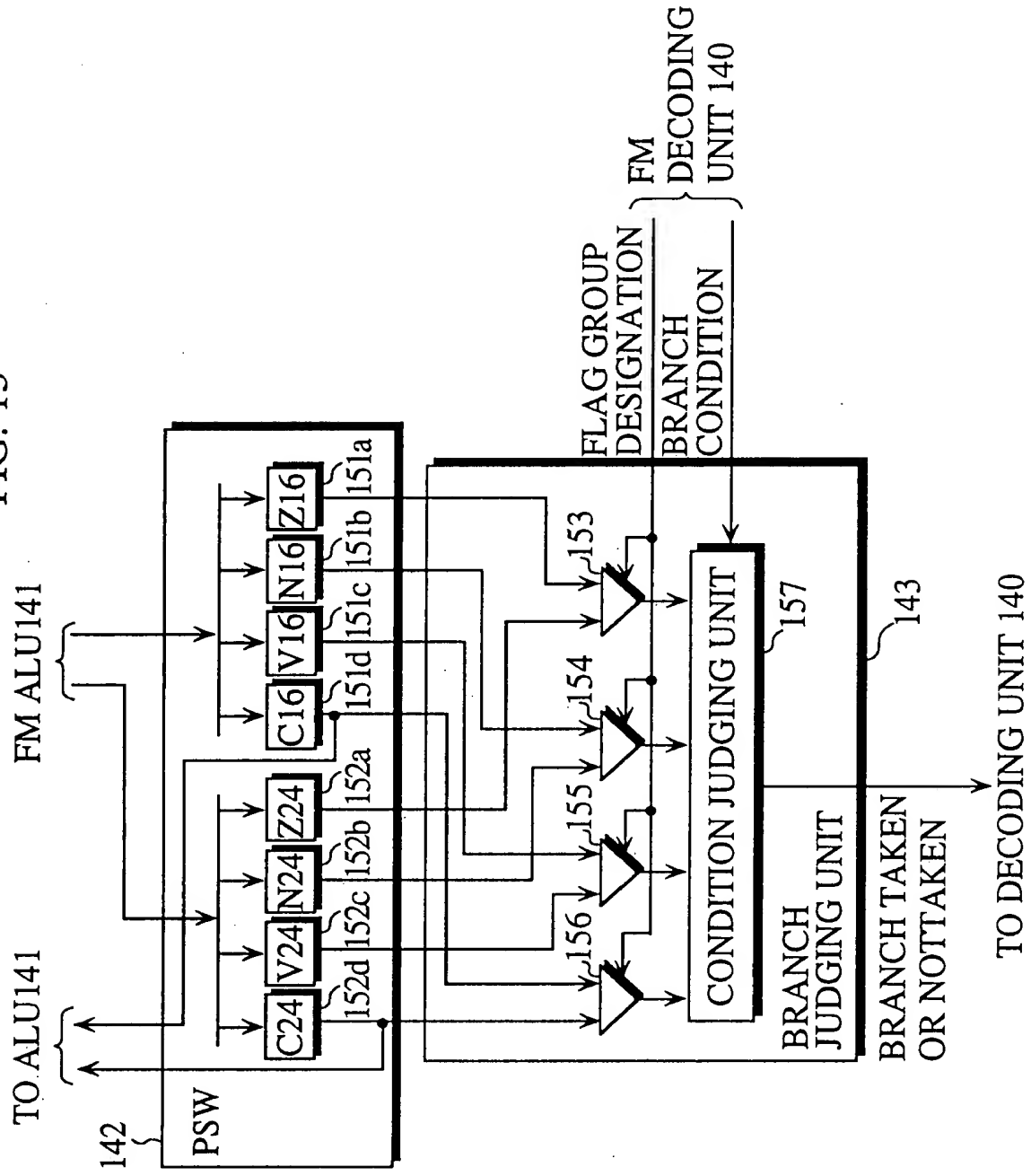
FIG. 15



APPROVED BY DRAFTSMAN
O.G. CLASS FIG. SUBCLASS

FIG. 16A

CONDITIONAL BRANCH INSTRUCTION

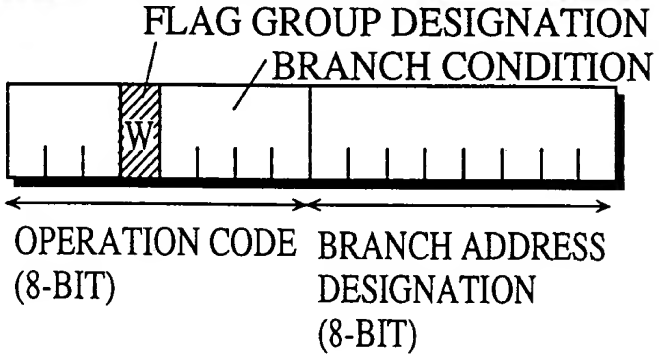
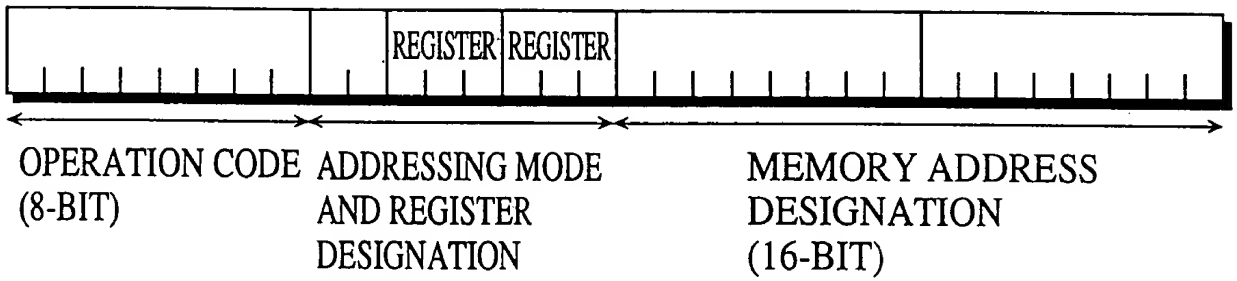


FIG. 16B

ADD/SUBTRACT/COMPARE INSTRUCTIONS



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APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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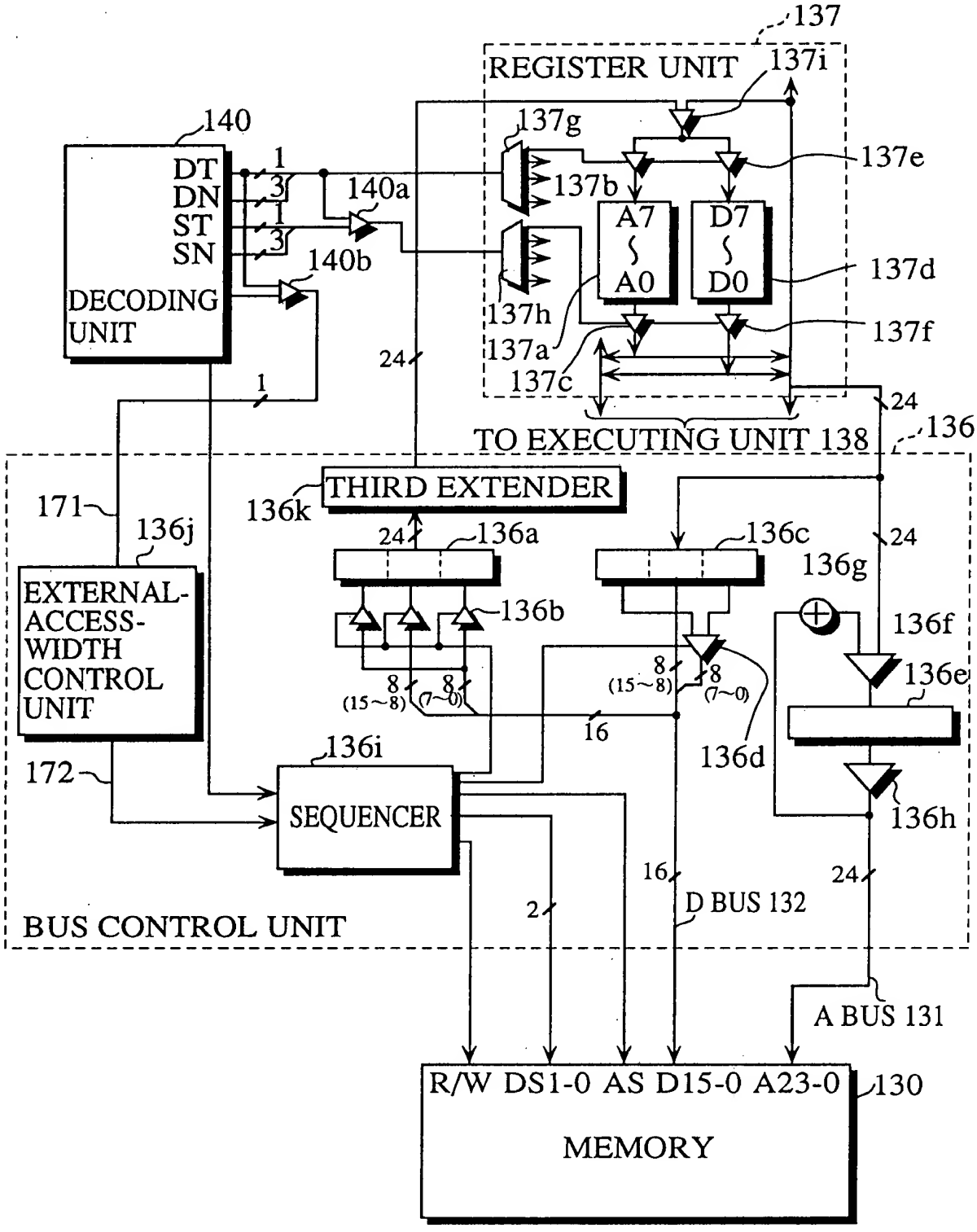
FIG. 17



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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FIG. 18A

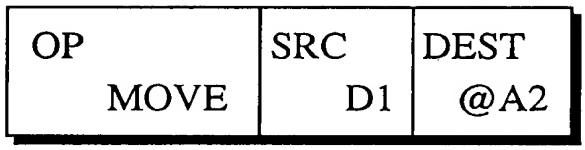
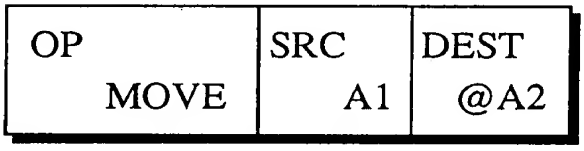


FIG. 18B



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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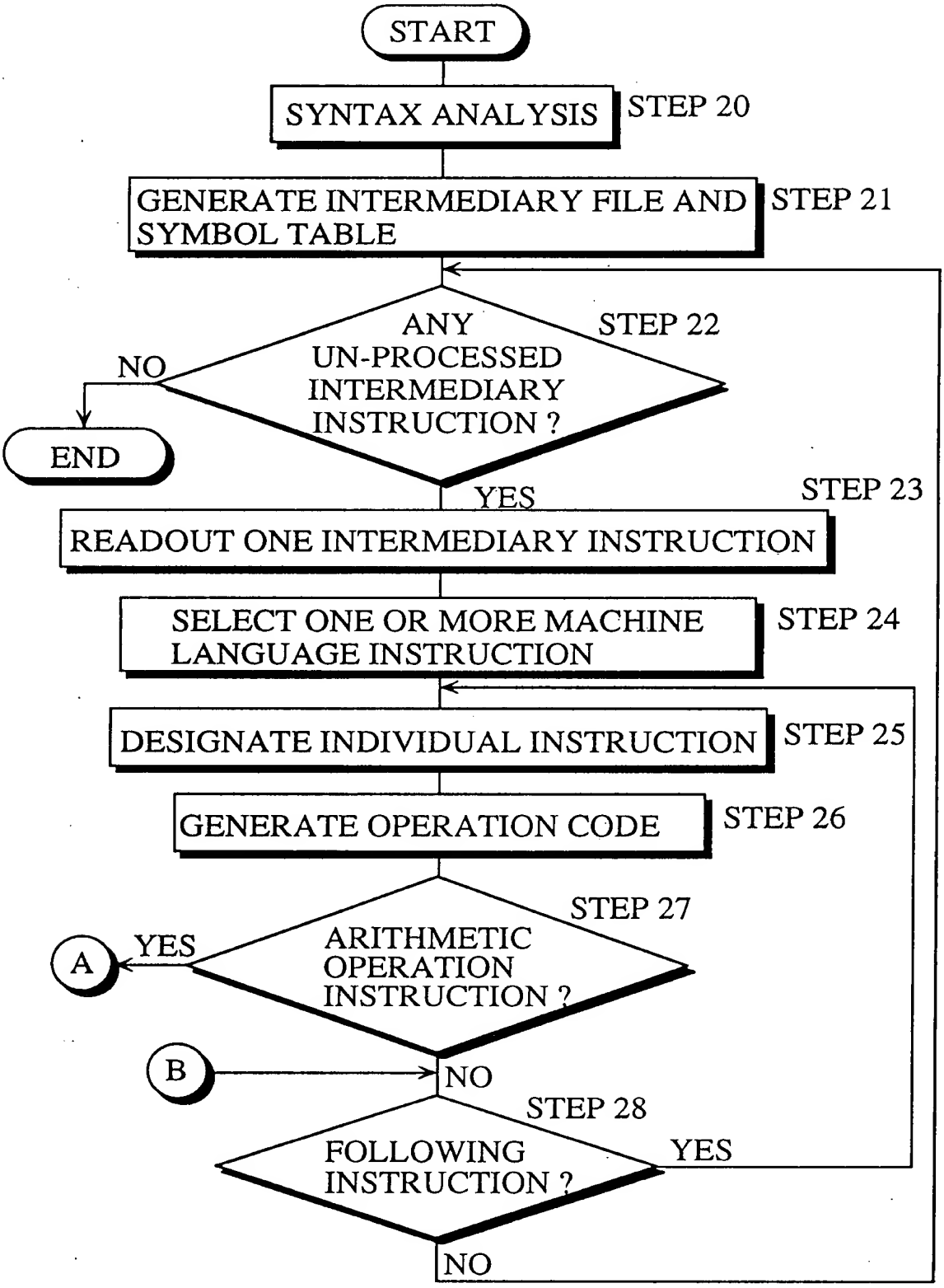
FIG. 19



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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~~08-240157~~

FIG. 20A

SYMBOL TABLE

SYMBOL	VARIABLE TYPE SIGN	VARIABLE TYPE TYPE	No.of BYTE	HEAD ADDRESS	REGISTER
*a	UN-SIGNED	POINTER	3	1000	
b	UN-SIGNED	INTEGER	2	1004	
c	UN-SIGNED	INTEGER	2	1006	
t1	UN-SIGNED	INTEGER	2		
t2	UN-SIGNED	INTEGER	2		
t3	UN-SIGNED	INTEGER	2		

FIG. 20B

SYMBOL TABLE

SYMBOL	VARIABLE TYPE SIGN	VARIABLE TYPE TYPE	No.of BYTE	HEAD ADDRESS	REGISTER
a	SIGNED	CHARACTER	1	1000	
b	UN-SIGNED	CHARACTER	1	1001	
c	SIGNED	INTEGER	2	1002	
d	UN-SIGNED	INTEGER	2	1004	

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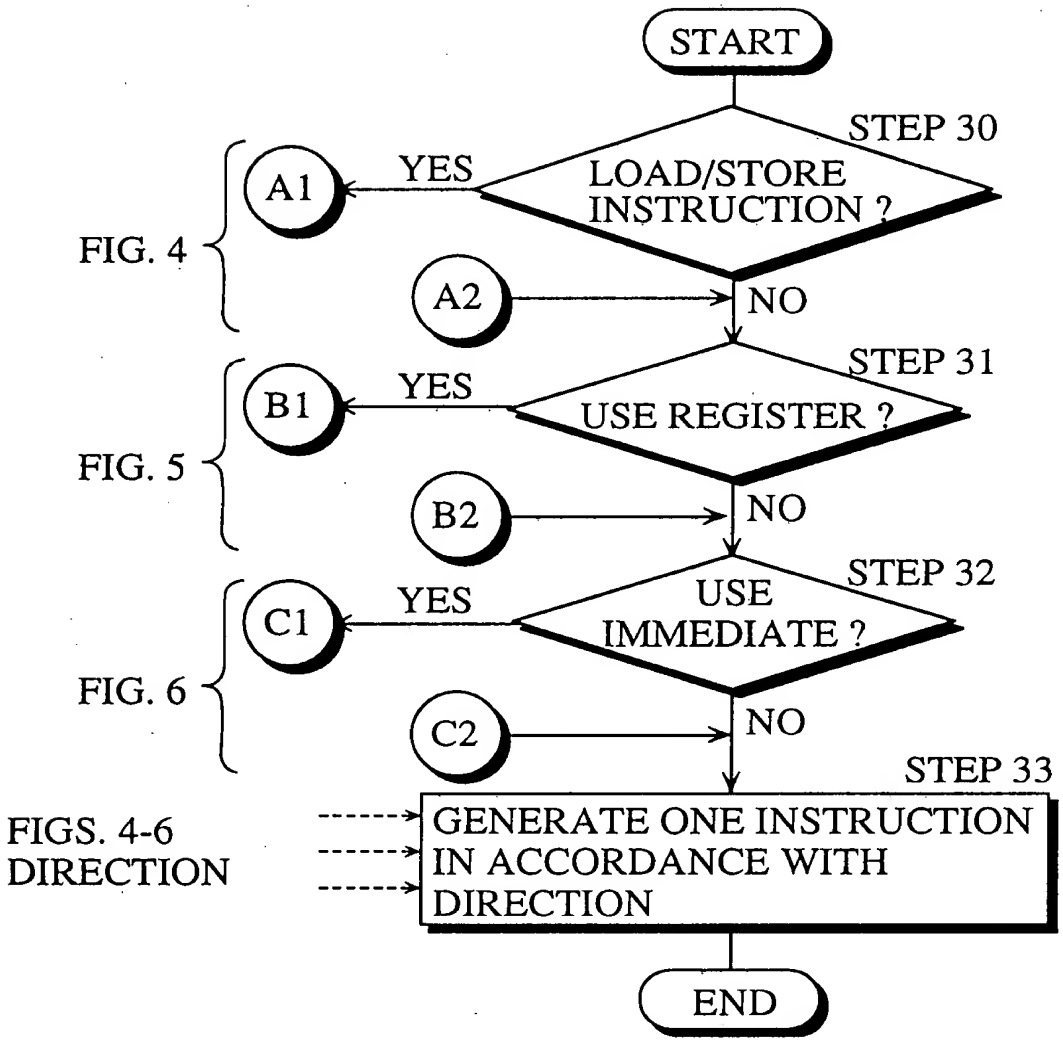
FIG. 21



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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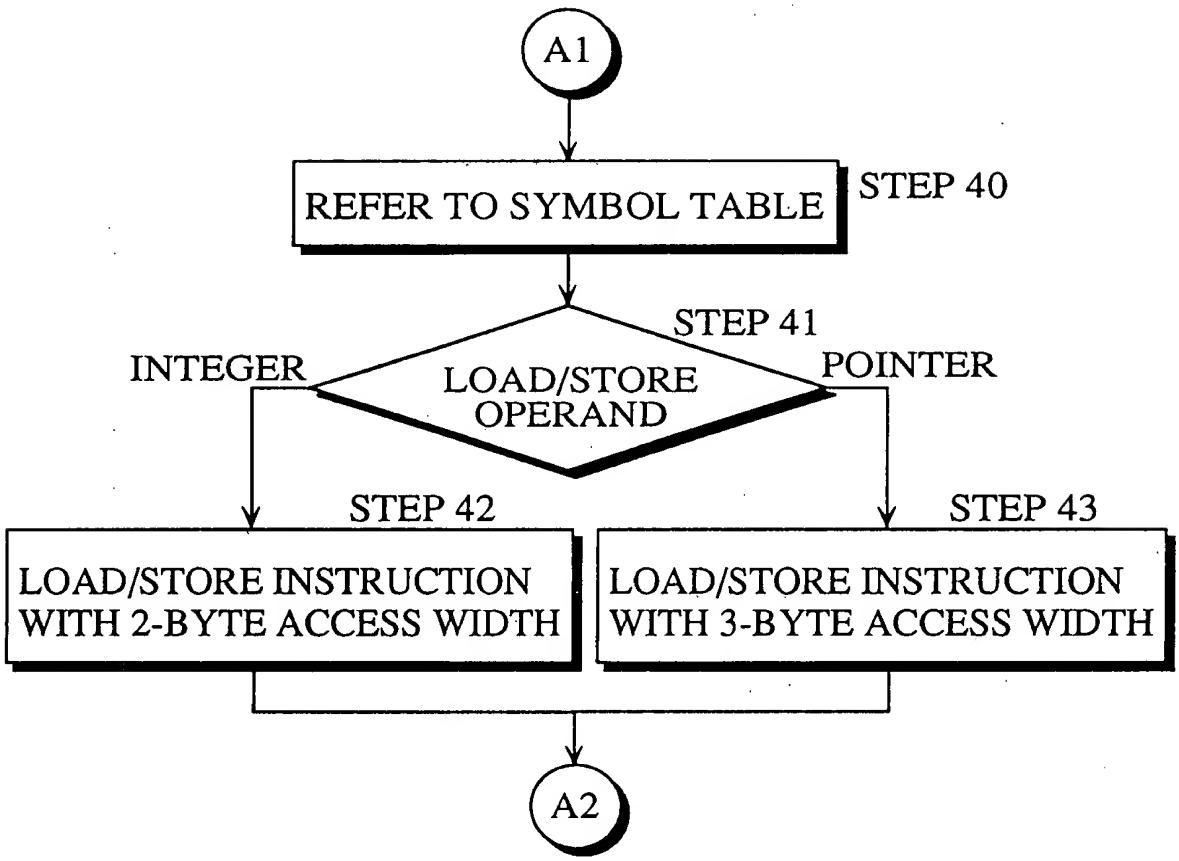
FIG. 22



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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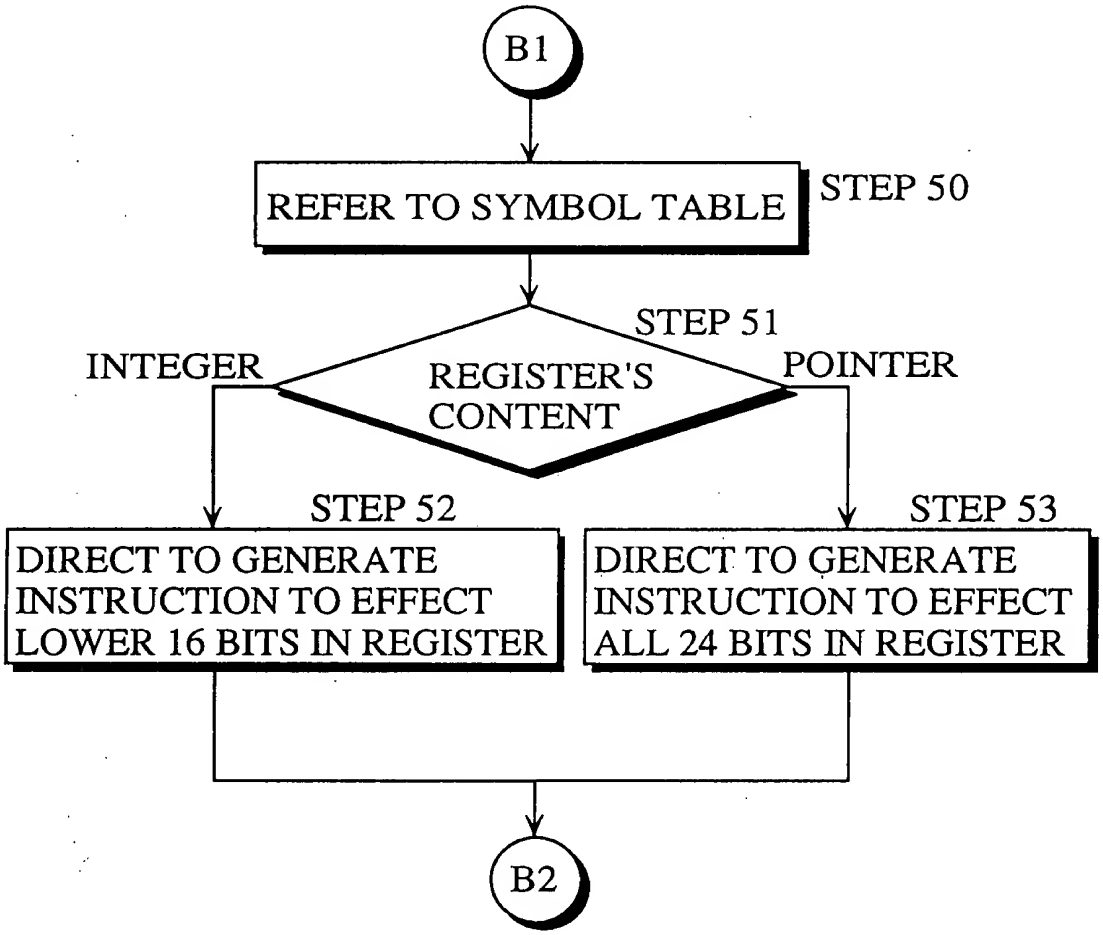
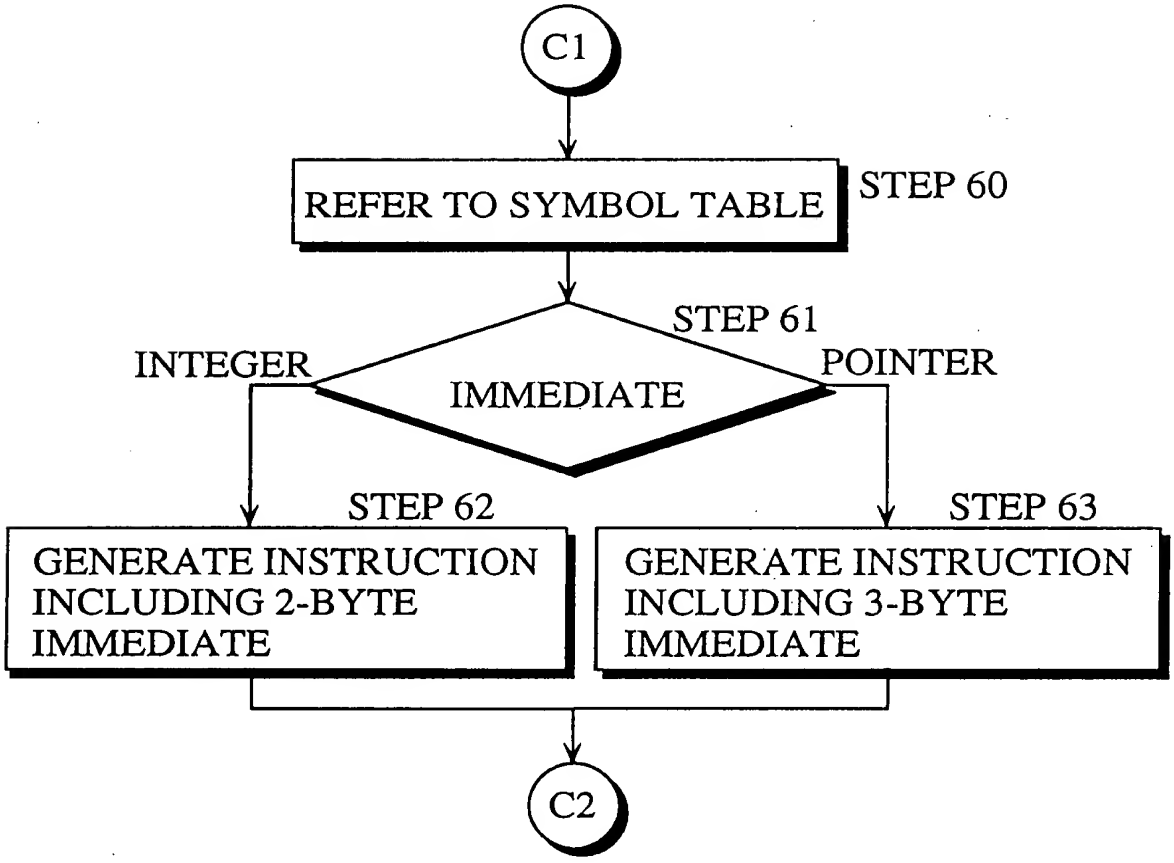
FIG. 23



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

08-587,338

FIG. 24



APPROVED BY DRAFTSMAN	O.G. FIG. CLASS	SUBCLASS

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08/587,338

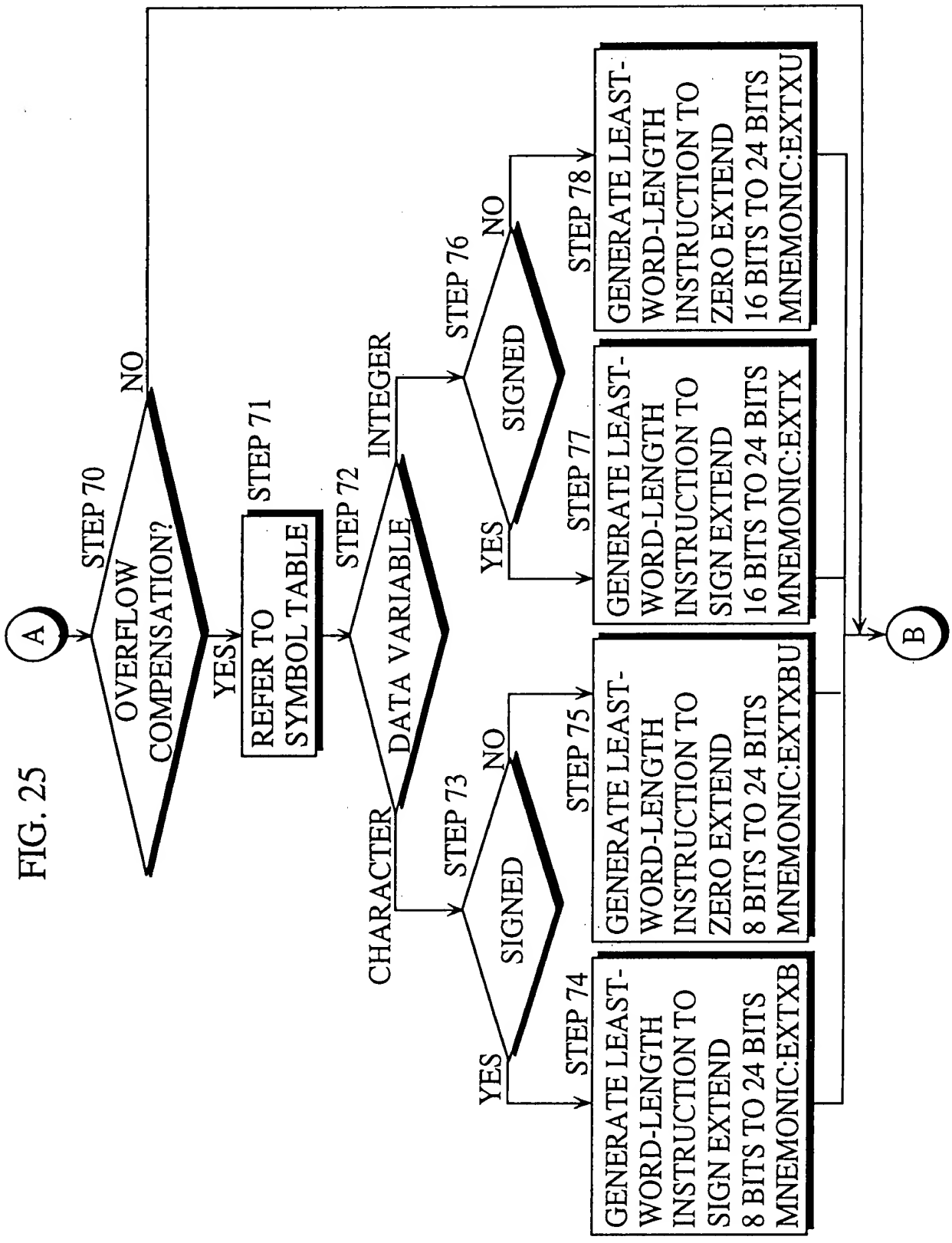

FIG. 25

APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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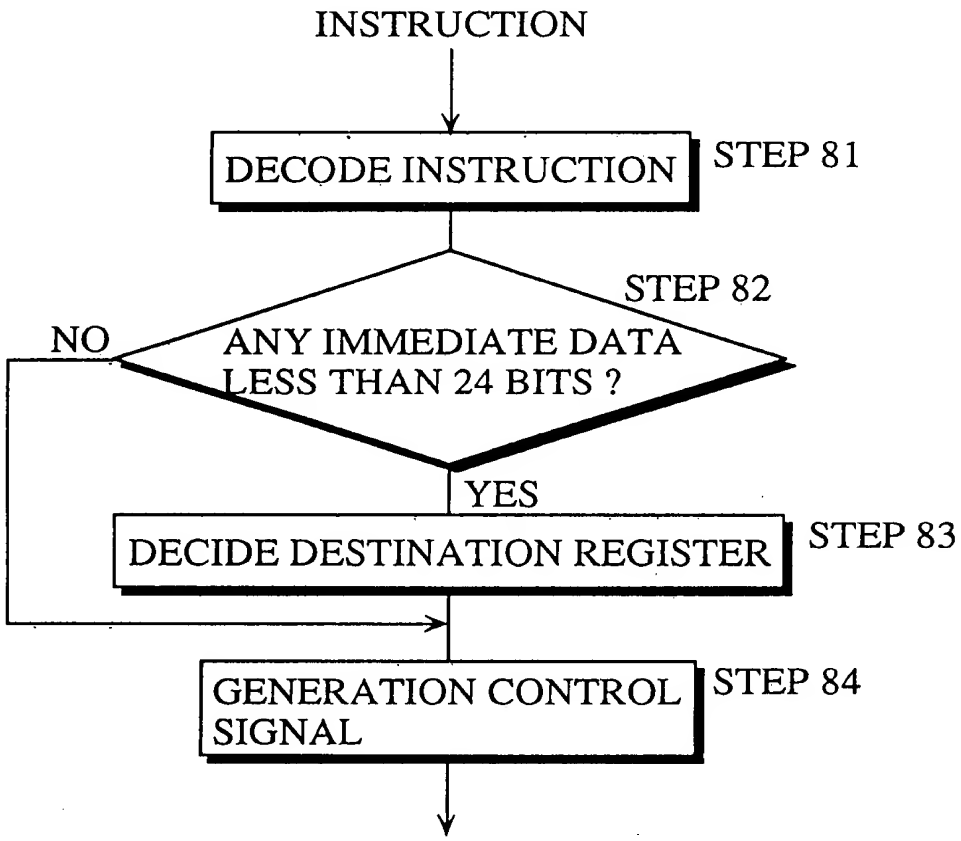
FIG. 26



APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS

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FIG. 27

```
        SUB   D0,D0          ——(1)
        MOVI  #H8000,A0      ——(2)
LABEL A
        MOV   @A0,D1         ——(3)
        ADD   D1,D0          ——(4)
        ADDI  #H0010,A0      ——(5)
        CMPI  #H8100,A0      ——(6)
        BLT   LABEL A        ——(7)
LABEL B
        MOV   D0,@H10000000  ——(8)
```